

Cutting-edge Research for a Changing World



Helmholtz-Zentrum
hereon

Postdoc Position in the field of climate change attribution and impacts

Reference code: 50111863_4 2024/KS 1
Commencement date: as soon as possible
Work location: Geesthacht (near Hamburg)
Application deadline: March 10th, 2024

The Coastal Climate and Regional Sea Level Changes group of the Institute of Coastal Systems at the Helmholtz-Zentrum Hereon in Geesthacht, near Hamburg, Germany, invites applications for an exciting two-year postdoc position. It will be in the field of climate change attribution and impacts as part of the BMBF project 'WAKOS-2' starting March 1st, 2024, and ending February 28th, 2026. Within the project 'Water on the coasts of East Frisia: Tailored Climate Services for Adaptation (WAKOS-2)', a number of German Universities and authorities will work on appropriate adaptation measures to create a climate-resilient East Frisia region. Processes such as the expected rise in mean sea level, storm surges, heavy rain events or periods of drought play an important role as they cause coastal erosion, groundwater recharge or saltwater intrusion and thereby influence coastal protection.

Equal opportunity is an important part of our personnel policy. We would therefore strongly encourage qualified women to apply for the position. In principle, the full time position (39 h/week) is also sharable.

Your tasks

The sub-project of the Helmholtz-Zentrum Hereon will focus on event-based storylines for a number of extreme events over Northern Germany and the German Bight and their attribution to anthropogenic climate warming. Regional spectrally nudged storyline simulations will be performed for present, preindustrial, and future climate states. The method was successfully implemented on a global scale for heat waves and droughts. These simulations will be downscaled to higher resolution using a regional climate model and will now be extended to cold winters, extratropical storms and storm surges. The overall goal is to achieve a quantification of climate change impacts for these extreme events.

Your profile

- PhD (or be about to complete) in meteorology/atmospheric physics or in a related scientific field (e. g. geophysics or earth system science)
- strong interest in extreme events, climate change detection and attribution, climate modelling, and atmospheric dynamics
- experience in a higher programming language
- ability to communicate effectively in spoken and written English
- good knowledge of data analysis/statistics
- strong motivation, also to publish in peer-reviewed journals and to present scientific results at international conferences

We offer you

- an exciting and varied job in a research centre with more than 1,000 employees from around 60 nations
- a well connected research campus and best networking opportunities
- individual opportunities for further training
- social benefits according to the collective agreement of the public service and remuneration
- an excellent technical infrastructure and modern workplace equipment
- 6 weeks holiday per year; company holidays between Christmas and New Year's Day
- very good compatibility of private and professional life through offers of mobile and flexible work
- family-friendly company policy with childcare facilities, e. g. nursery close to the company
- free assistance program for employees (EAP)
- Corporate Benefits
- a varied offer in the canteen on campus

Severely disabled persons and those equaling severely disabled persons who are equally suitable for the position will be considered preferentially within the framework of legal requirements.

Helmholtz-Zentrum Hereon

The Helmholtz-Zentrum Hereon conducts cutting-edge international research for a changing world: Around 1,000 employees contribute to the tackling of climate change, the sustainable use of the world's coastal systems and the resource-compatible enhancement of the quality of life. From fundamental research to practical applications, the interdisciplinary research spectrum covers a unique range.

Institute of Coastal Systems Analysis and Modeling

The Institute for Coastal Systems Analysis and Modeling studies the dynamics of coastal systems as part of the Earth system and develops prediction methods and future scenarios for coastal systems. One focus of our research is the study of coastal ecosystems, which are subject to increasing pressure to change due to climate change, use of coastal environments, and other human drivers.

Interested?

Then we are looking forward to receiving your comprehensive application documents (cover letter, CV, transcripts, certificates etc.) indicating the reference number 2024/KS 1 until March 10th, 2024.

[Apply now](#)



Max-Planck-Straße 1
21502 Geesthacht
www.hereon.de
bewerbung@hereon.de